	Application No.	Applicant(s)
	Application (40,	Applicant(s)
, Notice of Allowability	10/079,479 Examiner	LINDNER ET AL
,	Lxammer	Art Unit
	Ngoc-Yen M. Nguyen	1754
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (0 herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG of the Office or upon petition by the applicant. See 37 CFR 1.313 a	DK REMAINS) CLOSED in this a or other appropriate communication is subject.	ipplication. If not included
1. X This communication is responsive to 10/18/2004.		•
2. ⊠ The allowed claim(s) is/are <u>1,3-5 and 10-20</u> .		•
3. The drawings filed on are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the: 1. Certified copies of the priority documents have be 	een received.	•
2. Certified copies of the priority documents have b	een received in Application No.	
Copies of the certified copies of the priority docu	ments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMEI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	this communication to file a reply NT of this application.	complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted INFORMAL PATENT APPLICATION (PTO-152) which gives	ed. Note the attached EXAMINEF reason(s) why the oath or declara	R'S AMENDMENT or NOTICE OF ation is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be	e submitted.	
(a) including changes required by the Notice of Draftsperson	's Patent Drawing Review (PTO	-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's A Paper No./Mail Date	mendment / Comment or in the (Office action of
Identifying indicia such as the application number (see 37 CFR 1.84 each sheet. Replacement sheet(s) should be labeled as such in the	(c)) should be written on the drawing to 37 CER 1 121/	ngs in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FO	of BIOLOGICAL MATERIAL	more than a character to the control of
		,
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 🗆 א מ	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		ratent Application (PTO-152)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),	6. ☑ Interview Summary Paper No./Mail Dat	te
Paper No./Mail Date	7. 🛭 Examiner's Amendn	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9.	i
v.		
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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Vincent Shier on December 10, 2004.

The application has been amended as follows:

1. (Current Amended) A silica or silicate, having the following physicochemical characteristics:

BET surface area

from 50 to 700 m²/g

DBP absorption

from 100 to 450 g/100 g

Choline chloride absorption

from 150 to 400 g/100 g (75% absorption by weight

aqueous solution)

CTAB surface area

from 50 to 350 m²/g

DBP/choline

chloride absorption

less than 1.07.

- 2. (Canceled)
- 3. (Currently Amended) The silica or silicate of claim 1, comprising between 1 and 50% by weight based on total weight of at least one metal ion selected from the group consisting of Al, Mg, Ca, Ti, Zr, Fe and mixtures thereof.

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4. (Currently Amended) The silica or silicate of Claim 1, having a modified Sears number of from at least 20 to 45.

5. (Currently Amended) The silica or silicate of Claim 1, having a BET surface area of $180-210 \text{ m}^2/\text{g}$, a DBP adsorption of 280-450 g/100g, and a CTAB surface area of $130-200 \text{ m}^2/\text{g}$.

6. - 9. (Canceled)

- 10. (Currently Amended) A process for preparing precipitated silica or silicate, comprising
 - simultaneously metering into an aqueous silicate solution more aqueous
 silicate solution and a Lewis and/or Brønsted acid to provide a mixture,
 - acidifying the mixture to a pH of 7-3.0 to provide an acidified mixture
 - optionally filtering the acidified mixture to obtain a filtered precipitated silica er silicate,
 - optionally drying the filtered precipitated silica or silicate,

wherein the metered addition of the aqueous silicate solution and the Lewis and/or Brønsted acid is carried out while maintaining a constant alkali number in the mixture of at least 1, and

wherein said silica has the following physicochemical characteristics:

BET surface area from 50 to 700 m²/g

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DBP absorption	from 100 to 450 g/100 g	
Choline chloride absorption	from 150 to 400 g/100 g (75% absorption by waqueous solution)	eight
CTAB surface area	from 50 to 350 m ² /g	
DBP/choline chloride absorption	less than 1.07.	

- 11. (Original) The process of claim 10 wherein the alkali number is at least 15.
- 12. (Original) The process of claim 10, further comprising the addition of an electrolyte prior to or during the simultaneous addition of aqueous silicate solution and Lewis and/or Brønsted acid.
- 13. (Original) The process of claim 10, wherein at least one ion selected from the group consisting of Al, Ti, Zr, Fe, Mg, Ca and mixtures thereof are added prior to or during the simultaneous addition of aqueous silicate solution and Lewis and/or Brønsted acid.
- 14. (Currently Amended) A method comprising contacting the precipitated silica or silicate of claim 1 with a feed additive, a chemical intermediate, or a laundry detergent component.

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- 15. (Currently Amended) A method comprising contacting the precipitated silica or silicate of claim 1 with formic acid, propionic acid, lactic acid, phosphoric acid, choline chloride solution, a plant extract, a melamine resin, a coatings additive, a fragrance, or a detergent.
- 16. (Currently Amended) An elastomer, plastic, battery separator, toothpaste, catalyst support or flocculation assistant comprising the precipitated silica or silicate of Claim 1.
- 17. (Currently Amended) A process for preparing precipitated silica or silicate, comprising:
 - -simultaneously metering into a vessel an aqueous silicate solution and a Lewis and/or Brønsted acid to provide a mixture,
 - -acidifying the mixture to a pH of 7-3 to provide an acidified mixture,
 - -optionally filtering the acidified mixture to obtain a filtered precipitated silica or silicate,
 - -optionally drying the filtered precipitated silica or silicate,

wherein the metered addition of the aqueous silicate solution and the Lewis and/or Brønsted acid is carried out while maintaining a constant alkali number in the mixture of at least 1, and

wherein said silica has the following physicochemical characteristics:

BET surface area	from 50 to 700 m ² /g
DBP absorption	from 100 to 450 g/100 g
Choline chloride absorption	from 150 to 400 g/100 g (75% absorption by weight aqueous solution)
CTAB surface area	from 50 to 350 m ² /g

DBP/choline

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chloride absorption less than 1.07.

18. (Original) The process of claim 17 wherein the alkali number is at least 15.

19. (Original) The process of claim 17, further comprising the addition of an electrolyte

prior to or during the simultaneous addition of aqueous silicate solution and Lewis and/or

Brønsted acid.

20. (Original) The process of claim 17, wherein at least one ion selected from

the group consisting of Al Ti Zr Fe Mg Ca and mixtures thereof are added prior to or

during the simultaneous addition of aqueous silicate solution and Lewis and/or Brønsted

acid.

21. (Canceled)

In the title: Delete "and silicate".

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The

declaration filed October 18, 2004 by Dr. Lindner shows that the product of Turk '379

does not have a ratio of DBP/choline chloride absorption ratio of less than 1.07 as

required in the instant claim 1. Since the product claims are allowable and the other

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independent claims have been amended to include the allowable subject matter of the product claims, all claims have been rejoined.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoc-Yen M. Nguyen whose telephone number is (571) 272-1356. The examiner is currently on Part time schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Stan Silverman can be reached on (571) 272-1358. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed (571) 272-1700.

> Primary Examiner Art Unit 1754

nmn

December 10, 2004